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PRE-CONTRACT ACTION

✓ CORRESPONDENCE

SECURITY ACTION

MISCELLANEOUS

DESIGN OBJECTIVES & PROPOSALS,
APPROVAL MEMO

CONTRACT & CONTRACTUAL CORRESPONDENCE

INSPECTION & TRIP REPORTS

PROGRESS REPORTS

COMMENTS:

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NPIC/TSSG/DED-1216-68

27 May 1968

MEMORANDUM FOR: Chief, Research & Development Branch II, DED

SUBJECT : Improved Rear Projection Screen

1. On Friday, 24 May 1968, [] and I attended a meeting 25X1
at the Washington Office of Corning Glass Works, 1629 K Street, N.W. Corning
personnel from Raleigh, North Carolina attending this meeting were: [] 25X1
[] The purpose 25X1
of the meeting was to discuss certain technical details pertaining to the
pending follow-on contract for development of an Improved Rear Projection
Screen.

2. The first item discussed was the test results pertaining to some
German-made Rear Projection Screens (Marata Disks). Corning presented a doc-
umentation of their test results on this material (Attachment 1). [] 25X1
summarized the results obtained on a sample of this material by our Explora-
tory Laboratory. Although certain of the properties tested were superior to
those of the best American-made screens, it was generally agreed that it was
inferior in some properties. Neither Corning nor our Exploratory Laboratory
had determined the Modulation Transfer Function of the German-made screens.
(Exploratory Laboratory memorandum--NPIC/TSSG/TPD/EL-632-68 refers).

3. [] noted that there was little chance of 25X1
further improvement in the discrete-particle type of screen. Lenticular
screens showed some promise, but the cost of "drawing" the glass would in-
crease the final price of the screen. They favored pursuing the development
of a lenticular screen and wanted to know if there would be a market for a
higher priced material. I stated that if the material had outstanding qual-
ities, there was a good chance that it would be accepted even with the in-
creased cost. However, I advised that I would talk to the appropriate
authorities, determine their feelings on this subject and convey the results
during my planned visit to Raleigh during mid June. Question - How much will
we pay for a 30" X 30" rear projection screen having truly outstanding prop-
erties?

4. The next subject discussed was the desire for more feedback from us
relative to the systems in which this improved material would be used. Dr.
Megla contended that if they could view some of the rear projection devices
in operation, they might gain some additional knowledge which would be of
assistance in their development effort. Too, they might be able to offer

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some constructive ideas which, if applied to the system, would enhance the end results from any new screen material. I advised that I would look into the possibility of having their personnel view some of the rear projection devices. In addition, I stated that we could probably help them toward a better understanding of the physiology of seeing by recommending the best reference material. I also noted that I was trying to schedule a meeting between them and our [] to discuss this subject.

25X1

5. I have checked on the various rear projection viewers available in the building. They are: Richardson #705 in IAS-contact [] Richardson #706 in EL/TPD-contact [] ITEK in SPAD-contact [] [] in T&E-contact [] Permission has been tentatively obtained to show the ITEK [] viewers to the Corning personnel and I anticipate no trouble in obtaining permission to demonstrate the other two.

25X1

25X1

25X1

25X1

6. My recommendations in handling the requests of Corning are:

a. Advise them that a screen material having truly outstanding properties would be worth an increased price. (I do not believe we should quote an actual figure. We should ask them to estimate what the increased price would be).

b. Have [] accompany me on a one-day visit to Corning at Raleigh on Tuesday, 18 June, during which he could discuss the physiology of seeing and, perhaps, offer a recommended bibliography.

25X1

c. Arrange a visit for selected Corning personnel to see the rear projection viewers available here at NPIC.

7. Your comments on the above would be appreciated.

25X1

TSSG/R&DB II

Attachment:

Technical Data on German-made Rear Projection Screens

Distribution:

Orig - Addressee

2 - NPIC/TSSG/DED/R&DB II files

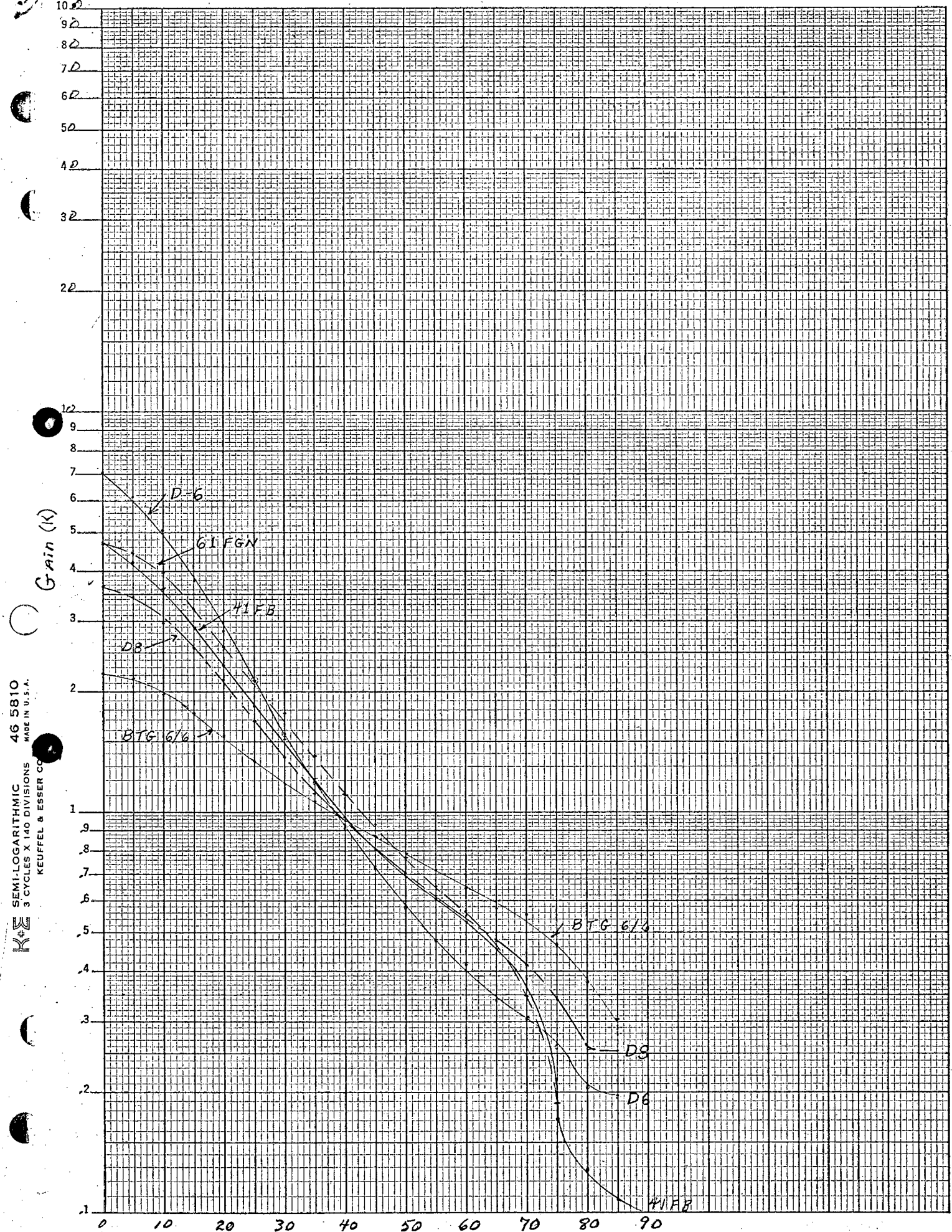
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TECHNICAL DATA ON SOME GERMAN-MADE REAR PROJECTION SCREENS

Type	Axial Gain	T ₉₀ (%)	T ₄₅ (%)	Brightness Variation ± (%)	Diffuse Reflectance (%)
D6	7	62	52	81	5.0
41-FB ¹	4.7	57	44	71	4.6
61-FGN ²	4.6	63	50	66	4.9
D8	3.7	53	40	64	4.8
BTG-6/6	2.2	48	32	43	5.0

¹Blue Tinted

²Green Tinted



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